

## MEDICAL NEEDLE ASSEMBLIES

### ABSTRACT OF THE DISCLOSURE

A shielded, sterile, single-use unit dose needle assembly includes a unit dose needle with a hub and two packaging shields sealingly mated to one another encasing the hub and unit dose needle. The unit dose needle has a handle end and a patient end configured to hold a unit dose of a vaccine. The hub is fixedly attached to the unit dose needle between the handle end and the patient end. The first packaging shield extends over the patient end, and the second packaging shield extends over the handle end of the unit dose needle. The first and second packaging shields are removably attached to one another to form an air-tight sterility seal, with the unit dose needle contained within the first packaging shield.